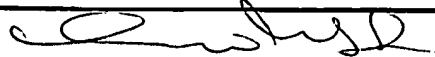


Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Complete If Known		
			Application Number	09/620,253	
			Filing Date	July 20, 2000	
			First Named Inventor	Simkins, Barry A.	
			Art Unit	2125	
			Examiner Name	Bahta, Kidest	
Sheet	1	of	5	Attorney Docket Number	018563-003100US

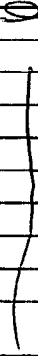

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	3,738,005	06-12-1973	Cohen	
	AB	3,983,628	10-05-1976	Acavedo	
	AC	4,324,547	04-13-1982	Arcan et al.	
	AD	4,575,330	03-11-1986	Hull	
	AE	4,889,238	12-26-1989	Batchelor	
	AF	4,890,608	01-02-1990	Steer	
	AG	4,935,635	08-19-1990	O'Harra	
	AH	5,130,064	07-14-1992	Smalley	
	AI	5,176,517	01-05-1993	Truax	
	AJ	5,328,362	07-12-1994	Watson et al.	
	AK	5,440,326	08-08-1995	Quinn	
	AL	5,562,448	10-08-1996	Mushabac	
	AM	5,614,075	03-25-1997	Andre	
	AN	5,621,648	04-15-1997	Crump	
	AO	5,742,700	04-21-1998	Yoon et al.	
	AP	5,799,100	08-25-1998	Clarke et al.	
	AQ	5,823,778	10-20-1998	Schmitt et al.	
	AR	5,848,115	12-08-1998	Little et al.	
	AS	5,857,853	01-12-1999	van Nifterick et al.	
	AT	5,880,962	03-09-1999	Andersson et al.	
	AU	5,934,288	08-10-1999	Avila et al.	
	AV	6,015,289	01-18-2000	Andreiko et al.	
	AW	6,062,861	05-16-2000	Andersson	
	AX	6,068,482	05-30-2000	Snow	
	AY	6,099,314	08-08-2000	Kopelman et al.	
	AZ	6,152,731	11-28-2000	Jordan et al.	
	BA	6,217,325	04-17-2001	Chishti	
	BB	6,244,861	06-12-2001	Andreiko et al.	
	BC	6,309,215	10-30-2001	Phan et al.	
	BD	6,315,553	11-13-2001	Sachdeva et al.	
	BE	6,322,359	11-27-2001	Jordan et al.	
	BF	6,350,120	02-26-2002	Sachdeva et al.	
	BG	6,382,975	05-07-2002	Polrier	
	BH	6,398,548	06-04-2002	Muhammad et al.	
	BI	6,402,707	06-11-2002	Ernst	

Examiner Signature		Date Considered	3/8/07
--------------------	---	-----------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	09/620,253		
		Filing Date	July 20, 2000		
		First Named Inventor	Simkins, Barry A.		
		Art Unit	2125		
		Examiner Name	Bahta, Kideat		
Sheet	2	of	5	Attorney Docket Number	018563-003100US

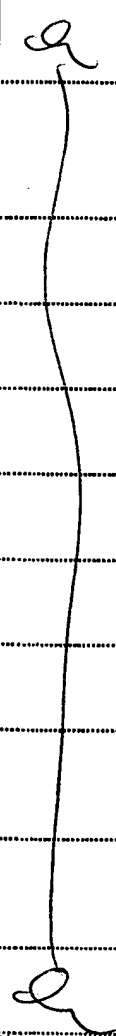
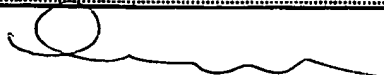
U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	BJ	6,482,298	11-19-2002	Bhatnagar	
	BK	6,524,101	02-25-2003	Phan et al.	
	BL	6,554,611	04-29-2003	Chishti et al.	
	BM	6,572,372	06-03-2003	Phan et al.	
	BN	RE 35169	03-05-1996	Lemchen et al.	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	BO	AU	517102		07-09-1981	Hito Suyehiro		<input type="checkbox"/>
	BP	AU	3031677		05-10-1979	Hito Suyehiro		<input type="checkbox"/>
	BQ	AU	5598894		06-08-1994	Ormco Corp		<input type="checkbox"/>
	BR	CA	1121955		04-20-1982	Suyehiro Hito		<input type="checkbox"/>
	BS	DE	2749802		05-11-1978	Suyehiro Hito		<input type="checkbox"/>
	BT	DE	69327661		07-20-2000	Ormco Corp		<input type="checkbox"/>
	BU	EP	0 667 753		08-23-1995	Ormco Corp		<input type="checkbox"/>
	BV	ES	463897		01-01-1980	Hito Suyehiro		<input type="checkbox"/>
	BW	GB	1550777		08-22-1979	Hito Suyehiro		<input type="checkbox"/>
	BX	JP	04-28359		01-30-1992	Mitsubishi Petrochemical Co		<input type="checkbox"/>
	BY	JP	53-058191		05-25-1978	Yoshii		<input type="checkbox"/>
	BZ	JP	08-508174		09-03-1996	Ormco Corp		<input type="checkbox"/>

Examiner Signature		Date Considered	3/8/02
--------------------	--	-----------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



Substitute for form 1449B/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	09/620,253
				Filing Date	July 20, 2000
				First Named Inventor	Simkins, Barry A.
				Art Unit	2125
				Examiner Name	Bahta, Kideest
Sheet	3	of	5	Attorney Docket Number	018563-003100US


NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	CA	BARTELS, et al., "An Introduction to Splines for Use in Computer Graphics and Geometric Modeling," Morgan Kaufmann Publishers, 1987, pp. 422-425.	<input type="checkbox"/>	
	CB	BAUMRIND, "A System for Craniofacial Mapping Through the Integration of Data from Stereo X-Ray Films and Stereo Photographs," An invited paper submitted to the 1975 American Society of Photogram. Symposium on Close-Range Photogram. Systems, University of Ill., Aug. 26-30, 1975, pp. 1-25.	<input type="checkbox"/>	
	CC	BLU, et al., "Linear interpolation revitalized", <i>IEEE Transaction on Image Processing</i> , May 2004, 13(5), pp. 710-719	<input type="checkbox"/>	
	CD	BOURKE, "Coordinate System Transformation," (June 1996), p. 1, retrieved from the Internet 11/05/2004, URL < http://astronomy.swin.edu.au/~pbourke/projection/coords >.	<input type="checkbox"/>	
	CE	CARNAGHAN, "An Alternative to Holograms for the Portrayal of Human Teeth" 4th Int'l. Conf. on Holographic Systems, Components and Applications, Sept. 15, 1993, pp. 228-231.	<input type="checkbox"/>	
	CF	CHACONAS et al., "The DigiGraph Work Station, Part 1, Basic Concepts," <i>JCO</i> (June 1990), pp. 360-367.	<input type="checkbox"/>	
	CG	CHAFETZ et al., "Subsidence of the Femoral Prosthesis, A Stereophotogrammetric Evaluation," <i>Clinical Orthopaedics and Related Research</i> , No. 201 (December 1985), pp. 60-67.	<input type="checkbox"/>	
	CH	English translation of Japanese Laid-Open Publication No. 63-11148 to inventor T. Ozukuri (Laid-Open on January 18, 1998) pp. 1-7.	<input type="checkbox"/>	
	CI	FÜTTERLING et al., "Automated Finite Element Modeling of a Human Mandible with Dental Implants," <i>WSCG '98 -Conference Program</i> , retrieved from the Internet: < http://wscg.zcu.cz/wscg98/papers98/Strasser_98.pdf >, 8 pages total.	<input type="checkbox"/>	
CJ	GOTTLEIB et al., "JCO Interviews Dr. James A. McNamara, Jr., on the Frankel Appliance: Part 2: Clinical Management," <i>Journal of Clinical Orthodontics</i> , Vol. 16, No. 6, (June 1982) pp. 390-407.	<input type="checkbox"/>		
CK	GUESS et al., "Computer Treatment Estimates in Orthodontics and Orthognathic Surgery," <i>JCO</i> , (April, 1989), pp. 262-28.	<input type="checkbox"/>		
Examiner Signature			Date Considered	3/8/07

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	09/620,253
				Filing Date	July 20, 2000
				First Named Inventor	Simkins, Barry A.
				Art Unit	2125
				Examiner Name	Bahta, Kidest
Sheet	4	of	5	Attorney Docket Number	018563-003100US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	CL	HIKAGE, "Integrated Orthodontic Management System for Virtual Three-Dimensional Computer Graphic Simulation and Optical Video Image Database for Diagnosis and Treatment Planning", <i>Journal of Japan Orthodontic Society</i> , February 1987, English translation, pp. 1-38, Japanese version, 46(2), pp. 248-269 (60 pages total).	<input type="checkbox"/>	
	CM	HOJJATIE <i>et al.</i> , "Three-Dimensional Finite Element Analysis of Glass-Ceramic Dental Crowns," <i>J Biomech.</i> (1990) Vol. 23, No. 11, pp.1157-1166.	<input type="checkbox"/>	
	CN	KOCHANNEK, "Interpolating Splines with Local Tension, Continuity and Bias Control", <i>Computer Graphics</i> , July 1984, 18(3), pp. 33-41.	<input type="checkbox"/>	
	CO	MANETTI <i>et al.</i> , "Computer-aided Cefalometry and New Mechanics in Orthodontics" (Article Summary in English, article in German), <i>Fortschr. Kieferorthop.</i> 44, 370-376 (Nr. 5), 1983.	<input type="checkbox"/>	
	CP	MCCANN, "Inside the ADA," <i>Journal Of The American Dental Assoc.</i> Vol. 118 (March 1989) pp. 286-294.	<input type="checkbox"/>	
	CQ	PAUL <i>et al.</i> , "Digital Documentation of Individual Human Jaw and Tooth Forms for Applications in Orthodontics, Oral Surgery and Forensic Medicine" Proc. of the 24th Annual Conf. of the IEEE Industrial Electronics Society (IECON '98), Sept. 4, 1998, pp. 2415-2418.	<input type="checkbox"/>	
	CR	PROFFIT <i>et al.</i> , <i>Contemporary Orthodontics</i> (Second Ed.), Chapter 15, Mosby Inc., (October 1992), pp 470-533.	<input type="checkbox"/>	
	CS	REKOW <i>et al.</i> , "CAD/CAM for Dental Restorations - Some of the Curious Challenges," <i>IEEE Transactions on Biomedical Engineering</i> , (April 1991) Vol. 38, No. 4, pp. 344-345.	<input type="checkbox"/>	
	CT	REKOW <i>et al.</i> , "Comparison of Three Data Acquisition Techniques for 3-D Tooth Surface Mapping," <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , (1991) Vol. 13, No. 1, pp. 344-345.	<input type="checkbox"/>	
	CU	SINCLAIR, "The Readers' Corner," <i>Journal of Clinical Orthodontics</i> , Vol. 26, No. 6, (June 1992), pp. 369-372.	<input type="checkbox"/>	
	CV	STURMAN, "Interactive Keyframe Animation of 3-D Articulated Models", <i>Proceedings Graphics Interface '84</i> , May-June 1984, pp. 35-40.	<input type="checkbox"/>	


Examiner Signature		Date Considered	3/8/02
--------------------	---	-----------------	--------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	09/820,253
				Filing Date	July 20, 2000
				First Named Inventor	Simkins, Barry A.
				Art Unit	2125
Examiner Name	Bahta, Kideest				
Attorney Docket Number	018563-003100US				
Sheet	5	of	5		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
Q	CW	TRUAX L., "Truax Clasp-Less™ Appliance System," <i>Funct. Orthod.</i> , 9(5):22-29 (September-October 1992).	<input type="checkbox"/>
	CX	TRU-TAIN ORTHODONTIC & DENTAL SUPPLIES, Product Brochure, Rochester, Minnesota 55902, 16 pages total.	<input type="checkbox"/>
	CY	VERSTREKEN <i>et al.</i> , "An Image-Guided Planning System for Endosseous Oral Implants," <i>IEEE Transactions on Medical Imaging</i> , Oct. 1998, Vol.17, Issue 5, pp. 42-852.	<input type="checkbox"/>
	CZ	WILLIAMS, "Dentistry and CAD/CAM: Another French Revolution," <i>Journal of Dental Practice Admin.</i> , January/March 1987, pp. 2-5.	<input type="checkbox"/>
	DA	YAMANY <i>et al.</i> , "A System for Human Jaw Modeling Using Intra-Oral Images," <i>Proc. of the 20th Annual Conf. of the IEE Eng'g in Medicine and Biology Society</i> , Nov.1. 1998, Vol. 2, pp. 563-566.	<input type="checkbox"/>
	DB	YOSHII, "Research on a New Orthodontic Appliance: The Dynamic Positioner (D.P.)-I. The D.P. Concept and Implementation of Transparent Silicone Resin (Orthocon)," <i>Nippon Dental Review</i> , Vol. 452, June 1980, pp. 61-74.	<input type="checkbox"/>
	DC	YOSHII, "Research on A New Orthodontic Appliance: The Dynamic Positioner (D.P.)-II. The D.P. Manufacturing Procedure and Clinical Applications," <i>Nippon Dental Review</i> , Vol. 454, August 1980, pp. 107-130.	<input type="checkbox"/>
DD	YOSHII, "Research on a New Orthodontic Appliance: The Dynamic Positioner (D.P.)-III. The General Concept of the D.P. Method and Its Therapeutic Effect, Part 1, Dental and Functional Reversed Occlusion Case Reports," <i>Nippon Dental Review</i> , Vol. 457, November 1980, pp.146-164.	<input type="checkbox"/>	
DE	YOSHII, "Research on a New Orthodontic Appliance: The Dynamic Positioner (D.P.)-III. The General Concept of the D.P. Method and Its Therapeutic Effect, Part 2. Skeletal reversed Occlusion Case Reports," <i>Nippon Dental Review</i> , Vol.458, December 1980, pp. 112-129.	<input type="checkbox"/>	

Examiner Signature		Date Considered	3/8/02
--------------------	---	-----------------	--------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.